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#4

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TCCATGCTGCACTGTGTGGCCAACCCCATCCTCTACAACCTTCTCAGCCCCGAGCTTCCGGGG.
CCGACTGCTGAGCCTTGTGGTTCGTTACCTTCCCAAGGAGCAGGCCAGGGCAGCAGGTGGTTC
GTGCCTCCTCTTCTTCTTCCACCCAGCACTCCATCATCATTACCAAAGAGGGCAGCCTGCCC
GCTGCAGCGGATCTCCACACCCACCCCATCCGAAACGTTCAGGCGTCCTCTCCGCCTCCAAA
CACCTCACCTACACTCTGCAATTCGCTAGCCAGCTAAGGTAGACTCTAGCTTCTCTCCACCAA
TAAGAAAGTTCAGAGGGGGATGCGAGAGGTCTGTGGGAGGGGGTGGGAAGGACTGGCTTGTTC
CAGGGCCAATTTAAGTATATCAAAACGTTGCTGTGGGGAGAGGGAAACGGTTCGGGAAGGAC
AGAGAATGGATCTTTCTTGTATAGTACACTATTTGTTTGGGTACTGATGTCTAAGGGAGCCA
CACCGGTGGGGCGTGGGGGGTGGGGAAGCG (SEQ ID NO:1)

FIGURE 1

COPY OF PAPERS
ORIGINALLY FILED

underlined = deleted in targeting construct

[] = sequence flanking Neo insert in targeting construct

[TCCATGCTGCACTGTGTGGCCAACCCCATCCTCTAC] AACCTTCTCAGCCCCGAGCTTCC
GGGGCCGACTGCTGAGCCTTGTGGTTCGTTACCTTCCCAAGGAGCAGGCCAGGGCAGCAG
GTGGTTCGTGCCTCCTCTTC [TTCTTCCACCCAGCACTCCATCATCATTACCAAAGAGGGC
AGCCTGCCCCGCTGCAGCGGATCTCCACACCCACCCCATCCGAAACGTTCAGGCGTCCTCT
CCGCCTCCAAACACCTCACCTACACTCTGCAATTCGCTAGCCAGCTAAGGTAGACTCTAG
CTTCTCTCCACCAATAAGAAAGTTCAGAGGGGGATGCGAGAGGTCTGTGGGAGGGGGTGGG
AAGGACTGGCTTGTTCAGGGCCAATTTAAGTATATCAAAACGTTGCTGTGGGGAGAGGGA
AACGGTTCGGGAAGGACAGAGAATGGATCTTTCTTGTATAGTACACTATTTGTTTGGGTA
CTGATGTCTAAGGGAGCCACACCGGTGGGGCGTGGGGGGTGGGGAAGCG]

FIGURE 2A

Gene Sequence Structure *

37 bp

Sequence Deleted

137 bp

Size of partial
cDNA: 526 bp

Targeting Vector* (genomic sequence)

Construct Number: 3267

Arm Length:

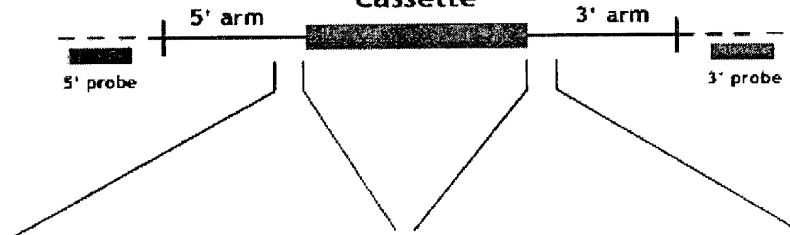
5': 2.5 kb

3': 1.8 kb

— Targeting Vector
- - - Endogenous Locus

* Not drawn to scale

LacZ-Neo Cassette



5' >GGCGCCACTGCCTGTTGATGT
GGGCTTACATAGTTGCTTTGCCA
TCTGCTGGCTGCCCTACCAAGTGA
CTATGCTGCTGCTCACTCTGCACG
GGACCCACATCTTCCTCCACTGTC
ACCTGGTTAACCTTCTCTACTTCT
TCTACGAAATCATCGACTGCTTTT
CCATGCTGCACGTGTGGCCAACC
CCATCCTCTAC<3'
(SEQ ID NO:2)

5' >TTCTTCCACCCAGCACTCCAT
CATCATTACCAAAGAGGGCAGCCT
GCCCGCTGCAGCGGATCTCCACAC
CCACCCCATCCGAAACGTTTCAGGC
GTCTCTCCCGCCTCCAAACACCTC
ACCTACACTCTGCAATTCTGTAGC
CAGCTAAGGTAGACTCTAGCTTCC
TCCACCAACAAGAAAGTTCAGAGG
GGGATGCGAGA<3'
(SEQ ID NO:3)

FIGURE 2B